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T*IKE *IKE

October 30, 1969

If it weren't for the professional schools, we'd all be artists.

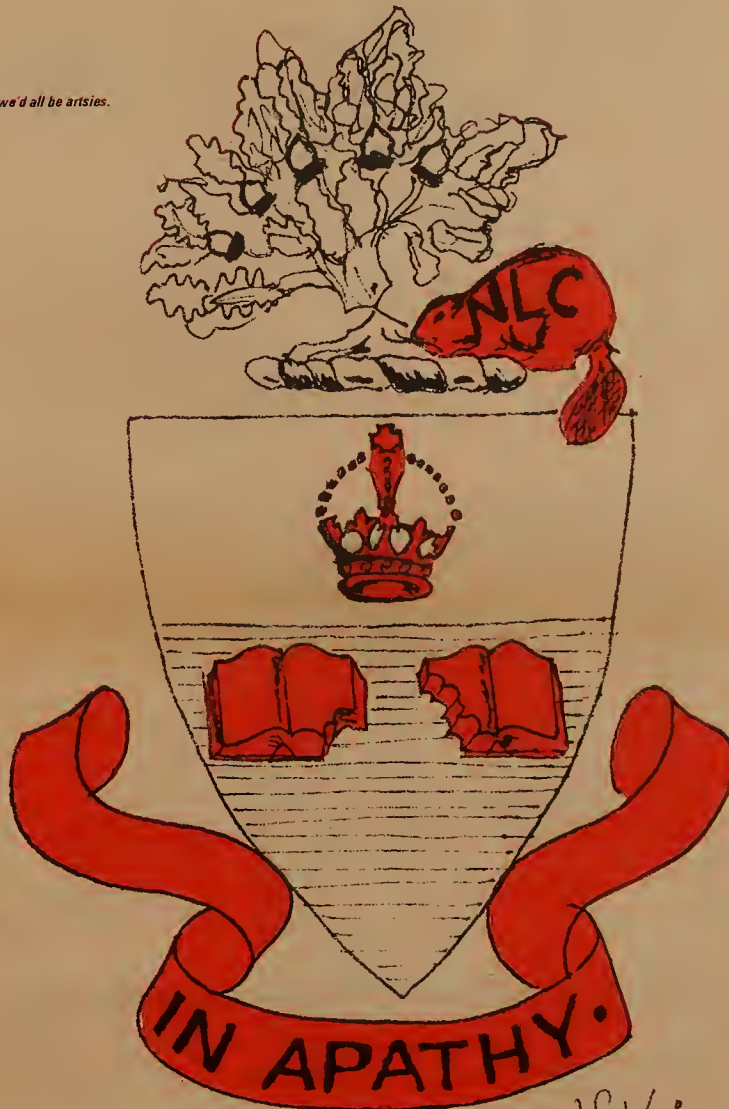
*In days of yore, from Galbraith's shore,
Art, the dauntless hero came
And planted firm a new idea
In U of T's fair domain.
This engineer has saved the day
Who says we're a-political?
The moderate vote is now entwined
Though the Leftists may be critical.*

*Should euld acquaintance be forgot
25 G's never mind
I'll drink my cup of hemlock yet
And forget that CUS was mine.*

*Marty, Marty, where's the party?
How doth the referenda go?
With UoFT, Dalhousie,
And Carlton ell in a row.*

*The Varsity stoff set on the wall
The Varsity image had a great fall
All Agi's stories
And ell Barkwell's friends
Couldn't make CUS relevant again.*

*Little Martin Loney set with his cronies
Eating their humble pie.
Along came Big Gus
And asked, "What's the fuss?
For CUS was just pie in the sky!"*



8th St. / 1st

*Show me a man who's a red-baiting man
And I'll soon show you 962 more.*

SURVEY OF FACULTY OPINION

To help formulate recommendations for the improvement of the Engineering academic community, the Engineering Society undertook a survey of the opinions of the academic staff and the administration of the Faculty of Applied Science and Engineering. The survey is part of a report being drawn up by a committee headed by Art McIlwain to propose changes in engineering education. (See "Aims for Education" Toike Oike, Oct. 9, 1969.)

The questions asked staff and administration dealt with the role of students in Faculty decisions and with the concept of a "general" engineer.

In reply to questions dealing with the decision-making role of the engineering student, the administrators and staff felt that students should play only minority or consultative parts in faculty decisions. Forty-five percent of administrators and 25% of staff felt that minority status was feasible, while most of the remainder preferred the consultative role, or no part at all. It was expressed that "students should be aware of the

large amount of time involved in committee work and that involvement in decision making was not all a bed of roses."

Student participation in the pre-planning of courses was also felt to be unworkable. Only 35% of academic staff felt the approach would be beneficial, because students have little constructive to contribute until after they have completed the course.

The idea of a "general" engineer as conceived by Mr. McIlwain and others, involves the type of an engineer that would graduate after complete freedom of course choice were granted. Having chosen his courses from various departments, this graduate could not call himself by the traditional names, that is, a Chemical or Civil engineer, and hence the name "general" engineer is applied.

This concept was received with mixed opinions in the staff and administration. Approximately 45% of the academic staff and 56% of the administration felt that undergraduate engineers lacked maturity or knowledge to decide

what they should study toward a definite degree. The remainder felt that a relaxation of restrictions might be satisfactory in the upper years, provided the student was presented with limited choices.

According to the report on faculty opinions, the feelings of those interviewed were that "the students may have the best intentions in the world and be well meaning in his attempts to carry them out, but that he really doesn't have what it takes to do so."

Despite the dominantly negative responses to the survey, the authors seem optimistic. The staff has also expressed concern that courses lean too much toward the distribution of factual knowledge, and that the emphasis would be better placed in motivating the student to learn. It is also regretful that 70% of the academic staff indicated that less than 60% of their working time is used preparing for and giving lectures.

It is expected that the Engineering society will follow this survey with concrete suggestions to improve our academic community.

By Allan Gilbert

PHILOSOPHY OF GOVERNMENT

It is the duty of any government to anticipate the needs and wants of its constituents. A government possesses both the background and the resources which enable it to forecast what is to come. More important is the unique power which it has to guide and determine the outcome of ongoing events.

It is very easy for a government to become removed from the governed. In coping with the world around it, a government has access to vastly greater amounts of information than its constituents. It must come to terms with all of this information and it does so by working through it and extrapolating from it in a logical manner.

The imminent danger is that all this beautiful logic can lead the government to conclusions which are then far removed from the real world of its constituents. People are able to become concerned and involved with issues only if they perceive these things to exist in their immediate environment. Their support for any issue is forthcoming only if they feel this problem to be basic to their environment.

To remain in power, a government must retain the support of its constituents. Once it goes too far beyond their realm of experience it loses their support.

This, in general terms, is an analysis of what has happened to the Canadian Union of Students and what may yet be the fate of the Students' Administrative Council.

CUS began to deal in issues and become involved in matters which could no longer retain the support of students in Canada.

The CUS Secretariat may well have come to conclusions, arrived

at through seemingly logical procedures, but logic pursued in an ivory tower leads to answers which may no longer be relevant or applicable to the initial facts and information. CUS derives conclusions which were not relevant to the real world of the constituents, for it is the students of Canada who make up the real world not the CUS Secretariat and organization.

Symptoms of a similar malady have become prevalent much closer to home in the Students' Administrative Council.

SAC is being run by a number of people who all have relatively similar political experience. They have been pursuing aims which are sequential to their views and beliefs, and, as a result, follow policies which the students of this university find difficult to support.

SAC is beginning in many ways to lose its prerogative for power.

What SAC must soon begin to do is to deal with matters which relate, to a much greater extent than at present, to the student. It must begin to place greater emphasis on attacking those problems which are of more immediate concern to the students. Without concern, there can be no forthcoming support, and without support, SAC would become completely irrelevant. Especially, it must cease to become politically involved in those matters with which the students at U of T are not able to sympathize, whether through opposing opinion or simple apathy.

SAC must cease to be the dogmatic organization that it now is; it must change — otherwise, it will most certainly follow the route of CUS.

By Eric Miglin



SAC MEETINGS COST \$750 (REALLY)

YOUR CAREER? SALES ENGINEERING

WHERE 20% of LAST YEARS GRADS SETTLED!

DATA PROCESSING
INTERVIEWS OCT. 30th
YOUR PLACEMENT SERVICE

ONTARIO STUDENT AWARDS

Students receiving grant

assistance under the Ontario

Student Awards Program should

submit the Request for Grant

Portion in duplicate to the

Student Awards Office

immediately.

CLUB NEWS

Industrials, Mechanicals

The Industrial and Mechanical clubs will be confronting each other at a dance to be held at the Lord Simcoe Hotel, on Friday, November 7th in the Ontario Room. In order to create good club relation, all chains, knives and sliderules must be checked at the door and shin kicking is to be kept at a minimum. The bash will cover 5 rooms to minimize the effects of Mechanical friction and Industrial pollution and a Great Band will be there. Queens for each class will also be elected. See your class reps for tickets.

ENGINEERS AND DOPE

This article will be concerned with exposing the myth that there is no participation in the consumption of the illegal drug cannabis, in any shape or form, by the engineering student involved in his, or her, academic studies at the University of Toronto, as well as an expose in the most easily understandable manner, the reasons behind the attitude that precipitated this myth at the recent convention of the "Engineering Students and Legalization of Marijuana Committee" held secretly last week in the basement of the Meds building where it was clearly illustrated by the five participating members that the conflicting opinion that might arise, would certainly nullify the attempt of any party concerned to achieve a truthful and totally representative opinion from which anybody interested could formulate the necessary arguments to refute the initial premise, or indeed to prevent information necessary to support that basic idea, which is, as I know personally, one of the only issues up for debate in the mind of at least 50% of the engineering students enrolled at the University of Toronto.

The Industrial Club Smoker will be held For SURE at 8.30 P.M. October 30 — that's To-night! at the Fort York Armories' officers' Mess. All are welcome including arch-enemy Chemicals. There will be a number of speakers and a discussion of membership in the American Institute of Industrial Engineers . . . and its free.

CHEMICAL CLUB

The first Chemical Club dinner will be held Nov. 18, 1969 — See class reps for details.

An Air Pollution symposium will be held on Nov. 26 by the Chemical Engineering Grad. Students Association. The Associations require a chairman for this night who is interested in Air Pollution. Written application should be made to the executive of the Chemical Club (Neil Haist 924-7026)

ELECTRICAL CLUB

Shocking! The Electricals are

off like a charge jumping across a spark — gap. Already the Electrical Eng. Club has sponsored a staff-student-smoker and a wiener roast. More "exciting functions" are on the way, from the Eng. Car Rally to the staff-student hockey games (with helmets!) and, as usual, our annual Electrical-diner. So stay tuned to your class reps!

Being serious for a moment, I'd like to say a few words to the first-year: the different fields of interest have been integrated; if you are inclined towards Elec. Eng. or any other discipline, then pay careful attention to the various Eng. — club reps who come to you. Through these clubs, an opportunity is provided for a closer association between staff, grads and undergrads, to help you to gain a better insight into the field of your choice.

To all electricals the Elect. Eng. Club is alive and well! Get involved and socket to us!



Share and Share alike With Cher

Exrogenating! I didn't know these guys were surveying my isotherms. Hot spots will really bring a mast to a head.

T*IKE *IKE



Room 105 — mill bldg. — 928-2916. Devoted to the interests of the undergraduates of the Faculty of Applied Science and Engineering. Published every now and then by the Engineering Society of the University of Toronto.

EDDY IN CHIEF
EDDY'S ASSOCIATE
NOOSE EDITOR
SPORT EDITOR
PHORNTOG EDITOR
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WAR'N PIECE JACOBS
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KNAR'S BASMADJIAN
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RIGHTERS:

ROD 'N' TRACK:
CHEIF EXCREMENT:
BRAYING ASS. (isstant)
I DON'T KNOW?
HEAD TRANSISTOR:
TUNNEL DIODE:

WHAT'S HAPPENING BABY

October 30

1:00 pm United Appeal Auction
Buy your own Girl!
O.P. 135
8:30 pm Industrial Smoker
Fort York Armories Officer's Mess

October 31

9:00 pm Homecoming Hustling Dance
Greatest event of the year featuring the Alter Ego
Drill Hall
Last day for Polycann Exchange Application.

November 3, 4 BLOOD DRIVE

9:00 — 5:00 pm Galbraith Common Room 3rd Floor

November 5 EIC FILMS

1:00 pm MC 102

November 7 MCGILL WEEKEND

5:30 pm Buses leave Convocation Hall
Band Members sign up for your Cheap Bus.
Industrial and Mechanical Dance, Lord Simcoe Hotel, Ontario room.
By-elections for SAC and Engineering Society.

November 18 Chemical Club Dinner. See class reps.

January 18 LGM Bash — just to keep you warned well in advance.



Together: Write your own obscene caption!!!

ONTARIO STUDENTS AWARD PROGRAM DEADLINE IS TOMORROW

If applications are submitted
after October 31st, awards are
based on one - half of the
assessed need.

E.I.C. EVENTS

SATURDAY, NOVEMBER 8 — EIC — The Regional Conference "THE ENGINEER 2000" and "THE CITY 2000" — SCIENCE and TECHNOLOGY CENTRE, DONMILLS.

9:30 — 12:30 "THE CITY 2000", Dean J. H. Ham, moderator.

Computerized transportation domed cities, etc., 2:00 — 5:00 pm "THE ENGINEER 2000" with Dale Powell, EIC Student Chairman.

The changing role of the Engineer in a fast-changing technological environment.

Tours of the Science Centre — two student coffee sessions with Professional Engineers to talk to the students.

Cost — \$2.00 members only

Register 8:30 — 9:30 am or 1:00 — 2:00 pm.

SATURDAY, NOVEMBER 3 — The ANNUAL EIC Engineers Ball at the SCIENCE and TECHNOLOGY CENTRE at 9:00 pm. Billy Williamson's Orchestra. The Ball is NOT formal.

Cost — \$5.00 per couple

Tickets also available for Reception, Banquet and Ball at \$17.50 per couple. Reception begins at 7:00 p.m.

All Engineering Students wel-

come. Membership in EIC is not compulsory.

Tickets available at:

1. Conference registration in the morning.
2. EIC office, phone 487-0221.
3. Room 147, Galbraith, from Miss M. O'Donahue.

WEDNESDAY, NOVEMBER 19 — EIC — "THE CANADIAN ENGINEERS' CONTRIBUTION TO THE SPACE PROGRAM" McLAUGHLIN PLANETARIUM 7:30 pm

Cost \$1.00 EIC members \$1.50 non-members

Reservations must be made before November 15, only 200 tickets. Tickets can be purchased every day from 1:00 to 2:00 pm in the lobby of the Mechanical Building.

WEDNESDAYS — EIC — Films of both technical and general interest every Wednesday from 1:00 to 2:00 pm in MECHANICAL 102. Bring your lunch!

Anyone wishing to join SEIC (or its women's auxiliary) can do so by picking up an application form from Miss M. O'Donahue in Room 147, Galbraith.

JANUARY 18 — The uttraneous Lady Godiva Memorial Bash is cumming.

BRA-LESS NUBILES

You will be happy to know that 2 senior mechanical engineers after studying the extensive applications of heat transfer have decided to open a breast warming booth in the middle of Queen's Park — for the cold winter months (starting Nov. 1) — drop in and make use of the latest and most advanced engineering techniques of a growing field.

All donations to a worthy cause.

P. W. KAY
D. W. STEPHEN
IV APSC — MECH



OTTAWA Y.W.C.A. FROM TORONTO-DOMINION CENTRE



SEAL OF APPROVAL

CANNONBALL CONTEST

Yes Virginia — there is a Cannonball. However both Cannonball and its Intercourse Competition (murals you degenerate!) desperately need a theme. Submit your ideas under "Cannonball" in the Society mailbox at the Engineering Stores and you may win free tickets to this supernacular — quasi-psychedelic-neo-orgy. Enter today.

CANNONBALL IS COMING NOV. 28 — ARE YOU??

PS. supernacular is a word-honest



FROSH MOUNTS RAIL

It's the real thing. Coke.

The taste of Coke has made it the world's most popular soft drink. No matter how hard other brands try — nothing else in all the world tastes exactly like Coke.

Both Coca-Cola and Coke are registered trade marks which signify only the product of Coca-Cola Co.



I got my broomstick at the tack shop

*Our printers advisory service on matters
of taste and cauth wishes you all a very
happy McGill weekend.*

BLOOD DRIVE PINTS FOR PINTS

Annual Red Cross Blood Drive

Time : Monday, Tuesday, Nov. 3&4

Place : Galbraith Building

3rd Floor Common Room

The class with the highest

Turnout will be given a pint

for each pint given.

*Pots, Phe, Nurses,
Bleed along with Engineers*

*Caution : Do not take any drugs
(asprin, grass, speed, penecillin
birth control pills etc.)*

up to 48 hours before bleeding.

UNITED APPEAL AUCTION

(MEAT MARKET)

TO DAY OP - 135

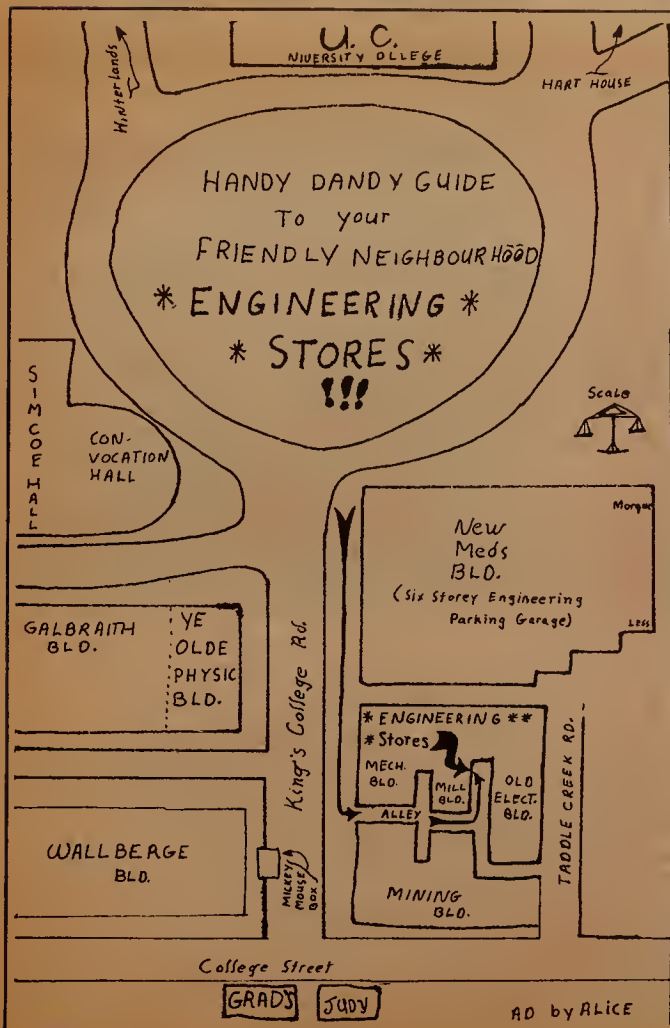
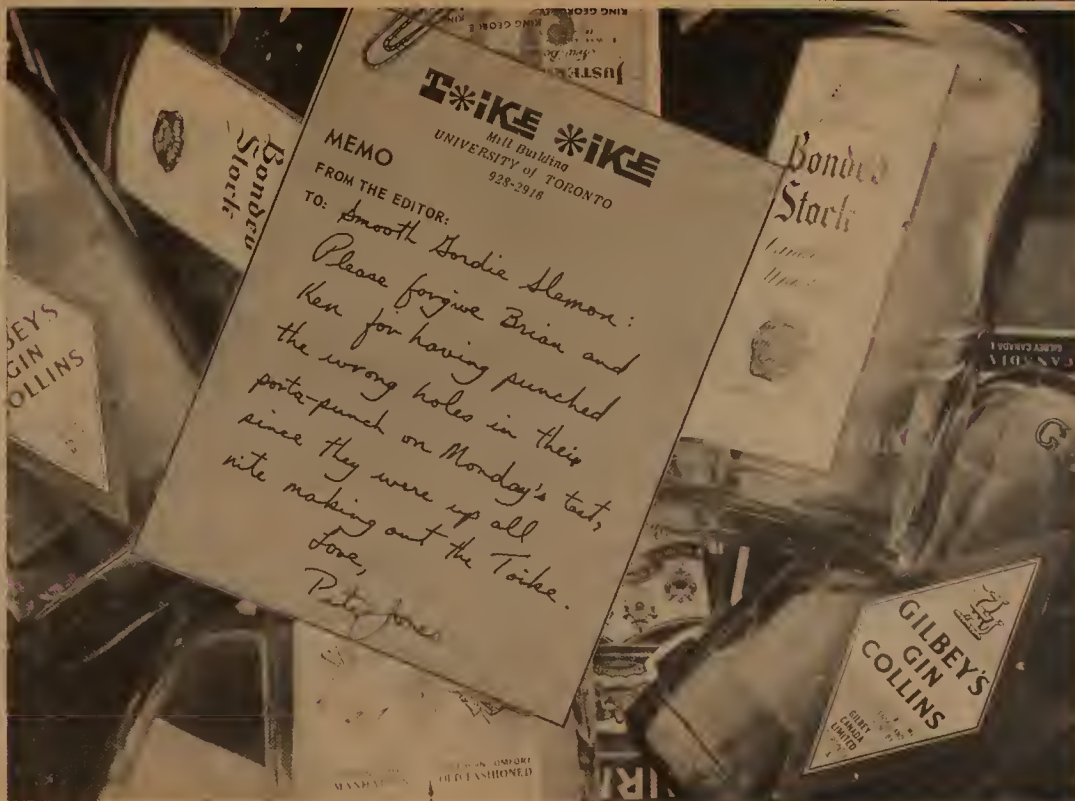
LOTS OF LUCIOUS LOVELIES

Proceeds to U. A. - a Good Cause!

It's still not too late to buy

Your class a girl!

1:00 - 2:00



90¢
PLAY BOY!
MAGAZINE !!!

EVERY THING
UNDER THE SON
CHEAP
AS
HECK (Really)!

BODY BY CHUCK

SPOT BY SPOT



Make a note of this

L.G.M.Blurb



Amazing feat: LGMB members manage to maintain equilibrium over table for duration of picture.



IT'S WENDY OUT

ONTARIO STUDENTS AWARD PROGRAM DEADLINE IS TOMORROW

If applications are submitted
after October 31st, awards are
based on one - half of the
assessed need.

CAPER 69 - 70 - 6

One day while travelling through Europe, fearless Lady Godiva Memorial Sleuth number 006.9 made an amazing discovery. She was so amazed at being discovered that . . . (oh well!). At any rate (dv/dt) mel GMB solmon found that our patron saint (L. Godiva) had a birthday! (Really!). This of Course (electrical) called for a celebration. So we did and they did and everyone did (celebrate) . . . In the end the whole thing turned into a massive and nearly official caper, covered by some of the most important news media in the country, including CFTO, CBC and LGMBLurb. True to form, the Varsity completely ignored us and therefore missed a tremendous opportunity to make it as an important paper.

Following its usual devious routs (root 84, root 14 and 5, etc.) the band performed some of its newest material (colonelolal Bogy?) and eventually led the BFC and 1500 student radicals (as in root) to the statue of Henry the 7th in Queens' Park. We chose this sight because Henry was a distant relative of Godiva by virtue of a marriage between the Enginn family and the earl of Neering, and besides which, Henry was the only statue around with its own horse. The celebration continued and became so impressive that Godiva's Bastard Son made his first appearance since the laying of the Lady Godiva Memorial (some people suspect that he really only appeared to assist in the laying of the eternal flame).

Eventually our speaker got a frog in his throat (planted by Rene Levesque) so we moved on and on and on and on (which, if pronounced quickly seems to say and on and on and on and on) (Hard on) In front of the Parlia-



Band in Boston

ment Bldgs We were greeted by a throng of rabid MLA's and secretaries and oefficers who insisted in singing Happy Birthday to Godiva who, happy and satisfied, (what???) rode down University Ave. off and into the sunset, with strains of "happy tails to you" playing softly in the background (In the key of Gee thats sharp) (what?!?).

So until next issue, boys and girls, keep those entries coming in for the Lady Godiva look alike contest and you too can win the big green, blue, yellow, pink Mill building compressor. (a distant relative of the E.U.T) Apply Eng. Stores Today.

69 - 70 - 7

On Tuesday the United Appeal Engineering Joint Auction was held (eg the auction). The Lady Godiva Memorial Band officiated and in the process managed to auction off (or on) melGMB solmon's sister and simultaneously get banished to the steam tunnels for the duration.

There would be more only it hasn't happened yet since this is only Sunday at the tolke make up (what?!?)

CAPER 69 - 70 - 8

We practiced (really)

SPORTIOKE

LACROSSE

Skule lacrosse has two teams entered in divisions II and IV. Most of last year's first team has returned including Sadoway, Wolfe, Scully, Nickerson, and Yellow. Also playing for Engineering I is Burtynk, Cooper, Mor, and Walker. Engineering II is made up of Mills, Stephan, Masui, Janikowski, Parson, McMaster, Plaxton, Teroux, Swaluk, Llewellyn, Burton, and Martin.

In three starts this season, Eng. I has managed only one tie but coach Don Yellow will be looking for an improvement here and promises to have his men ship-shape come play-off time. Mike Scully has been the high scorer with four goals. Don Sadoway has been overworked at times in goal and has put up a valiant fight in all three games.

In two starts, Eng. II has split -- the win coming through a game defaulted by PHE C. In the other game with Scar., Dave Mills scored one of his patented goals and hence leads the team in goals with one. Eng II is proud to announce the signing of goaltender Chris Plaxton who will relieve some guy named Simon Llewellyn in the next game.

WATER POLO

Well it's that time again Skulemen to doff your clothes & don your birthday suits (Swimsuits not mandatory but definitely an asset). Play water polo for Skule in the Varsity Intramural league. The first organizational meeting to plan strategy for 1st game in late November will be on Monday Nov. 3 at 1:00 pm. in the old Electrical Common Room on the 2nd floor. As for experience, the more you have, the more we need you -- it's not a prerequisite. Good eyes, fast reflexes, a strong kick and a few guts is all that's needed.

Further info John Archiblad -- 923-0161

BASKETBALL

Skule has just started interfaculty basketball practices. The turnout at the first practice was good, considering that its starting time was at 8 o'clock in the morning. A lot of new and promising players showed up. These new players along with several experienced players (where are you Staples, Callahan, Ingle?) should put both the Junior and Senior teams in a contending position.

Intramural basketball starts in January. If you want to form a class team, sign the list in the Engineering Stores -- but hurry, the number of teams allowed is limited.

SR. SOCCER

As of October 23, Sr. Eng. has won all its games. (VIC. 4-0, U.C. 7-0 and MEDS. 3-2) Some of last year's players are back, namely D. Kocur, M. Lim, G. Kumpala & G. Homatidis (8 goals). Some juniors have been elevated, J. Napoli, P. Wong, J. Stamatopoulos & G. Barnett. Newcomers are R. Brand, S. Thomas, D. Albanese and B. Cecchini. Future games against St. Mike's and Grads, will determine whether the Skulemen will finish first in league play. The team has the ability to take it all but whether they can or not, remains to be seen. Anything can happen in this league.



JR. SOCCER

To date, the Junior Engineering Soccer squad has not shown too much power, Enemies 13, Engineers 2. The major weakness is in goal where Pete, the Frenchman, keeps falling on his derriere. But, the boys are one of the roughest bunch in the second division when men like Harry Burton and Simon Llewellyn forget that the game is soccer not rugby. Once the scorers, such as Pete Skelton, break out of their slump, the fans will be able to see a very entertaining brand of soccer.



VOLLEYBALL

The seniors opened this season by whipping their first opponents 15-7 and 15-5. Strong play by such seasoned veterans as Ed Kaluvis, Witold Gesing, Andy Mitkowski and George Senkiw supported by two promoted juniors Ken Leudrum and Ray Permmel completely overpowered the Erindale team. The Juniors, coached by Bob Cunningham, should have a good team. They will start the season by tangling with Vic. Practice will intensify and all players are asked to attend regularly. The players will be rewarded by *NEW UNIFORMS* that will be issued this coming week. We are all looking forward to a VERY successful season.



CONTROL PLUS....!!!

HEJ'S HOCKEY — A LOOK AT THE BROADSIDE OF ENGINEERING OR HOW THE GIRLS NEED YOUR ATHLETIC SUPPORT

This year after many months of hard labour, Knar Basmadjian and Dianne Longbottom having easily succeeded in arousing the pagan desires of countless (15) wanton women and filling them with pregnant dreams of glory; have organized the first annual Women's Hockey Organization of Receptive Engineers. This team will be pitted against the best the Artsie defence can offer, thus allowing for a five game take off to be exhausted on home ice.

Not only that, but the girls also think they are capable of handling themselves when faced with defeating a hairy Outcropping of satyr male engineers in what should prove to be the game of the century, unless the girls feel otherwise -- like longer.

But we need your support! We already have R. Cheerless Leader but he, like the rest of his breed (brook?), has no followers. So come out of your shell you guys and spur our fighters onto greater glory (or anything else you see fit).

Other holes to be filled include fifteen masseurs; each one must be proficient in his art; and at least one beer boy. Also timers to make sure each playgirl is in bed by 6:00 a.m. or p.m. Last but not least is the trainer who will be asked to avail himself whenever a tight sweater or loose panti-hose needs observation.

A lot of behind-the-scenes work as yet needs to be done, berth's arranged and the opposition teammates to be drained of any excess energy i.e. neutralized. This calls for more volunteers.

If any wanton woman on the Engineering campus has not been filled in and has a desperate craving for action, she is asked to call 444-1061 (Knar) or 277-8765 (HEJ) or 444-8944 (Dianne). Any B.F.C. member who wants to protect our syblings from the ravages by defeated teams, should also call.

Further information will be available as it is delivered. Remember our cry: KILLLLLLLLLLLLLLLLLL

THE UNIVERSITY BOOKROOM has books for engineers too..

such as Planes, Trains, Cars, and Boats, put out by My Golden Go Go Library, or... Early Railways by J.B. Snell.. and many many more



your friendly neighbourhood Engineering Society
proudly presents:

ANOTHER ANNUAL MULTIFERIOUSLY ULTRONEOUS HOMECOMING DANCE

This Friday at the Drill Hall (8.30 - 12.30)

Come and get spaced out by the Alter Ego

for a mere buck.

ANOTHER LEATHAL ARTICLE THIS ONE ON I.E.E.E. CONVENTION

BY C. MASTHEAD

On Oct. 6, 7, and 8, the C.N.E. Automotive Building played host to the International Electronics Conference and Exposition sponsored by the Canadian Region of the Institute of Electrical and Electronics Engineers.

Quite a number of Engineering students are members of the various professional societies (EIC, ASME, ASM, CSCE, IEEE, SAE and soon AIIE, etc.) but, outside of a student chapter, our only contact with them is often a highly technical magazine, and invitations to conferences in Las Vegas or Atlantic City which we never attend.

Thus we were glad to take the opportunity to find something close to home in which to involve ourselves.

The conference itself was immediately impressive. The exhibits, varying from a microwave hot dog cooker, to astronaut T.V. cameras and even an understanding computer system, would have been well worth up to half hour each. Pity the poor Tolke reporter with only a morning off, an unprepared electro-mech. lab and a photog who dawdles.

One main point of interest was the student paper session. This session, squeezed between sessions 32 and 34 but never given the recognition of being called session 33 was largely ignored, appeared

as a blank space or was, listed vaguely "Student Papers" in Conference Publications.

This lack of interest on the part of organizers however, did not prevent the student session from being interesting and informative if not well attended.

McGill student Peter Benedek received the Hackbusch Award for his efforts with a paper on the development of a "multi-strip Y circulator". The other three student papers were on "Active Filters", "Pulse Code Modulation" and "Basic Design Principles".

When we asked Mr. Benedek how he came to take part in such a venture he explained that his paper was written as a course requirement arising out of summer employment. One of his professors suggested entering it in the student paper contest and to his surprise he ended up in Toronto, a winner.

Mr. Benedek feels that these conferences could provide a good opportunity for students from various schools to absorb the "state of the art" atmosphere of a major trade show-convention and to exchange ideas. He looks forward to increased student participation and interest in future conferences.

There were a few disquieting notes about the conference. First, there was nothing at all to indicate that this was a meeting for *Canadi-*

an Engineers. The controversy over the degree of Institute involvement in public affairs, now quite strident in the U.S. has left Canada untouched. Indeed the only paper in this area, on society's acceptance of the electronics of 1975, was by some fellow from Michigan.

Another sad note was that with so many aspects of engineering, and management represented, and with 18 of the 20 on the papers review board listed as profs of Elec. Eng. at U of T there were no papers on Engineering education either by students or professors. It is evident that the professional societies have a long way to go with regard to student involvement. Some, like the EIC make an honest attempt. Some like the IEEE maintain a half-hearted facade. Finally some, like the Association of Professional Engineers of Ontario, despite their importance make no attempt at all.

Perhaps it is no coincidence that the IEEE student section staff advisor, Dr. Robertson, shortly after wining and dining Robert Loftus the New York based Student Co-ordinator of the IEEE, at the faculty club during a joint U of T and Ryerson Student Section meeting they were supposed to attend, left for Moscow (on his way to Siberia?)



Leathal, Phornag, and C. Masthead



Honest, Guys, I left it at home.

Centre for the Study of Drama
in association with
The St. Lawrence Centre for the Arts
presents

TANGO

by Slawomir Mrozek
translated by Nicholas Bethell
adapted by Tom Stoppard
directed by Joseph Shaw
designed by Martha Mann

Mondays to Thursdays,

November 3-6, 10-13, 17-20 at 8:30

Tickets \$3.00 - Students \$1.50 - Box Office 928-8668
and

MOURNING BECOMES ELECTRA

by Eugene O'Neil
directed by Leon Major
settings by Murray Laufer
costumes by Marie Day
Fridays and Saturdays,

November 7, 8, 14, 15, 21, 22 @ 5:30

Tickets \$4.50 - Students \$2.25

Gala opening performance
November 7th - \$7.50 - Students \$3.75

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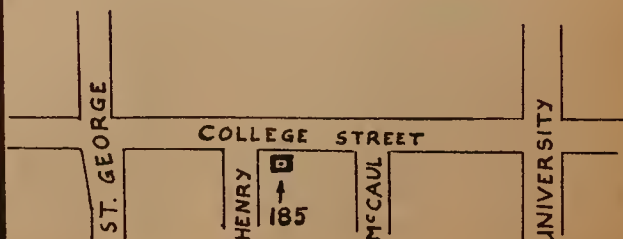
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HARDNESS OF ENGINEERING MATERIALS

by Bill McCutcheon

The Toike, in its never ending attempt to assist in the technical education of engineers, presents the following summary of important principles of Material Science from:

"Nature and Property of Engineering Materials" and "Introduction into mechanics of solids"

1. Hardness is one of the most investigated properties and it is also one of the most complex to understand.

2. The hardness.....can be measured by its resistance to scratchings or indentation.

3. The resistance to scratchings is usually determined by the well-known Moh's hardness test.

4. Most widely used hardness tests involve the determination of the material resistance to indentation.....A hard indenter of standard shape is pressed into the surface of the material under a specific load, causing first elastic and then plastic deformation.

5. A single impact test.....is not, in general, sufficient to determine whether brittleness is likely in service.

6. The elongation from the yield point to the point of rupture is not recoverable.

7. In fact, a long rod may actually have lower resistance to fracture.....than a short rod of the same cross section. Increase in length increases the possibility of buckling or of introducing a weak section.

8. ...a rod acting in compression

cannot be too slender, or its behaviour will not be governed by the usual strength criterion...it will buckle sideways and collapse. All....considered here will be assumed to be sufficiently stable laterally by virtue of their proportions.

9. For this reason the strength of materials under repeated stresses is more commonly defined by the endurance or fatigue strength.

10. In...applications it is important to have the material capable...of withstanding fatigue.

11. The slope of this initial straight-line portion of the curve is a measure of the stiffness.....

12. The curve flattens rapidly and finally becomes parallel to the strain axis, owing to the decreasing effect of strain hardening with increasing temperature.....

13.the plastic flow will stop unless there is an increase in stress.

14. Whenever...stress....is removed, the material returns to its original size.

15. The magnitude of the internal friction seems to be closely related to the degree of perfection in structure a specimen possesses.

16. When major changes in the geometry, the processing, or the functioning of the part occur, a large error may result.

17. The true strain can be calculated by integration of the strain increments of all past deformations.

18. Materials also show different strength when the method or rate of stress application is varied.

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ONTARIO STUDENT AWARDS

Students receiving grant assistance under the Ontario Student Awards Program should submit the Request for Grant Portion in duplicate to the Student Awards Office immediately.

1. Alice enters water.
2. Alice in water.
3. Alice leaves water.
4. What Alice had in the water.



TOIKE JOIKES

Virgin: A girl who hasn't met her maker.

A doctor had just finished giving an artsman a thorough physical examination.

"I can't find a thing wrong with you," the doctor said. "But, I recommend that you give up about half of your sex life."

The artsman stared at the doctor a moment and then said, "Which half — thinking about it, or talking about it?"

Old Deans never die — they just lose their faculties.

The brunette was telling her buxom blonde girlfriend, "you've got to hand it to Eddy when it comes to petting."

"What's the matter with him, is he lazy?" inquired the blonde.

What did the elephant say when he was pulled out of the hole by the Balls? — Thank you, Mr. & Mrs. Ball.

As the bra said to the hat, "You go on ahead while I give these two a lift."

What is the similarity between a woman's breast and an electric toy train? They were both meant for little children, but the fathers play with them more.

SEX is so popular because it is centrally located.

"Will you go to bed with me for \$1,000,000?"

"Sure."

"Will you go to bed with me for \$5.00?"

"Whadya take me for?"

"Ob, we've already established that. We were just haggling about the price."

Elsie the cow was on one side of the fence and Ferdinand the bull was on the other. Elsie winked at Ferdinand and he leaped over the fence to her side.

"Aren't you Ferdinand the bull?" she asked.

"Just call me Ferdie," he said. "That damned barbed wire fence was higher than I thought."

Spring Fever: When the iron in your blood turns to lead in your pants.

ON THE ART OF BRIDGE

An elderly woman was applying for a job. When asked why she left her former place, she replied: "Yassum, day pays good wages alright, but it was de most ridiculous place I ever did work. Day plays a game called bridge. Last night dare was lots of folks dare. Just as I was to bring on de refreshments, I heard a man say to a lady, 'Take your hand off my trick'. I pretty near dropped dead, bless my heart. I hear anudder man say to a lady, 'Well I's got strength, but not length.' Just then a woman says, 'you forced me and jumped me twice, when you didn't have strength enough for one raise.' Another woman was talking about protecting her honor. Well, I gets my hat and coat, and just as I was leaving, I hopes to die if one of dem man's didn't say, 'Well, I guess we'll have ta leave as this is our last rubber'. I's a lady, I is, and I just couldn't stay dare no mo'.

The latest new male birth control pill! Put an acorn in your shoe and it makes you limp.



Be A Covergirl

Help cover up the backside of the Toike, or even the centre-spread. If you need exposure (above 14 angstroms/weber²) or want to flash your talents, contact Jan at the Eng. Stores and see what develops

NOW IS YOUR CHANCE!!!

THERE WILL BE AN ENGINEERING
ELECTION NEXT WEEK TO FILL
THE FOLLOWING VACANCIES :
IN THE ENGINEERING SOCIETY:

1 SAC REP (from 70, 71, 72)

1 EAC REP (70)

1 DEBATES CHAIRMAN (70)

1 FIRST YEAR PRES. (73 ^{where} else)

ATHLETIC ASSOCIATION

1 FIRST YEAR REP (73)

1 VICE PRES. (72)

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(4th YEAR CHEMICAL WILL HAVE ADVANCED POLL)

BLUE AND WHITE SOCIETY PRESENTS THE HOMECOMING PROGRAM SPACED OUT '69

FRI. OCT. 31 8:00 pm
CONVOCATION HALL

CONCERT MOTHERLODE (When I Die)
ROCH SNOW OF THE YEOMEN
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ALL NIGHT MONSTER MOVIES
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SAT. NOV. 1: 10:00 am PARADE
2:00 pm QUEEN'S VARSITY GAME
9:00 pm HART HOUSE DANCE
4 groups and folksinger
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